

PCRs included in Revision 1 of EHB 6-502

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02-0053			Numerous	Numerous changes as a result of re-designating some TPMS WUCs and addition of some new WUCs

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REVISION 1

TECHNICAL MANUAL

WORK UNIT CODE

**DOPPLER
METEOROLOGICAL RADAR
WSR-88D**



PARAMAX CORPORATION
CONTRACT 50-DMNW-8-00032

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LIST OF EFFECTIVE PAGES		INSERT LATEST CHANGED PAGES, DESTROY SUPERCEDED PAGES
NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Minor changes to illustrations are indicated by a miniature pointing hand. Extensive illustration changes and new illustrations do not have the miniature pointing hand.		
Dates of issue for original and changed pages are:		
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TOTAL NUMBER OF PAGES IN THIS MANUAL IS 80 CONSISTING OF THE FOLLOWING:		
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<u>No.</u>		<u>No.</u>
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FOREWORD

1. GENERAL

This work unit code manual should only be used for reporting maintenance actions on equipment which is part of the WSR-88D Doppler Meteorological Radar. Complete details on the use of the codes contained in this manual are prescribed in ACPD 21-1, AFI 21-116, and TO 00-20-2.

2. USE OF CODES

It is necessary to use codes for recording maintenance actions in order to convert this information into language for translation by the regional central main frame computer. Maintenance technicians have access to their regional central main frame computer to use the Core Automated Maintenance System (CAMS) or the Integrated Maintenance Data System (IMDS) to document scheduled and unscheduled maintenance actions, whether it be for on-equipment or off-equipment. If access to CAMS/IMDS is not available, the maintenance actions should be recorded on maintenance forms for entry at a later date. The maintenance documentation system provides managers with timely, complete, accurate maintenance production data reports to facilitate effective planning, control, analysis and determining deficient material/equipment, facilities, or procedures. It is very important that all codes entered directly in CAMS/IMDS or clearly written on maintenance forms for later entry, be accurate. The reports produced are significant only if the codes are accurate.

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- 2.1. Work Unit Code. This code consists of five alphabetic and numeric characters and is used to identify the system, sub-system, and component which was worked on. For items Not Otherwise Coded, the abbreviation NOC is used. The number 9 is used in the fourth and/or fifth characters of the work unit code followed by the abbreviation NOC and should only be used when an item does not have a specific work unit code assigned. Items identified by an asterisk between the work unit code and the code definition require special documentation per TO 00-20 series technical orders. These items include serially controlled Reliability Improvement Warranty (RIW) or Time Change Items. The Time Change Items are further identified by the abbreviation (TCI) following the item definition.

This manual has been prepared in two sections. Section I contains work unit codes for the Radar. Section II contains work unit codes for Support Equipment (SE) peculiar to the equipment listed in Section I. The Type Maintenance, Action Taken, When Discovered, How Malfunctioned, and Support General Codes are contained in Section I of this manual.

- 2.2. Unique Data Codes for Maintenance Cost System (MCS). This code consists of five alphabetic or numeric characters, and is used to identify direct labor man-hours expended in other than direct labor, i.e., Alert Duty, Detail, Leave, Training, etc.
- 2.3. Type Maintenance Code. This code consists of one alphabetic character and identifies the type of maintenance being performed, i.e., scheduled or unscheduled maintenance.

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- 2.4. Action Taken Code. This code consists of one alphabetic or numeric character and identifies what work was done, i.e., removed, replaced.

NOTE

Collectively, the Work Unit Code and the Action Taken Code identify a “unit of work” as defined in TO 00-20-2.

- 2.5. When Discovered Code. This code consists of one alphabetic or numeric character, and is used to describe at what time a discrepancy was discovered.
- 2.6. How Malfunctioned Code. This code consists of three numeric characters, and is used to describe the equipment malfunction.
- 2.7. Support General Code. Support general codes are for recording production credit of repetitive tasks of a general nature, and are not to be used for recording malfunctions, repair, NRTS, or condemnation actions.

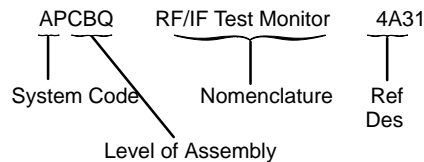
3. WORK UNIT CODE CONSTRUCTION AND APPLICATION

The primary purpose of work unit codes is to identify the hardware on which work was accomplished, and the relationship of hardware within a major assembly, subassembly, etc. The first two portions of the work unit code are assigned and controlled by the acquiring activity to identify the end item of equipment. The third and fourth characters include major assemblies and subassemblies, and identify first and second levels of assembly. The fifth position of the work unit code includes repairable/recoverable components and identifies the lowest level of assembly below the end item.

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Each work unit code in the equipment reflects adequate information to properly identify all levels of assembly, and includes the basic noun for each individual item that is coded. Part numbers and reference designations are used to further identify equipment.

Example:



4. SECURITY

When maintenance is being performed on classified equipment, the listing of a work unit code could possibly lead to a breach of security, such as betraying mission capability. Extreme caution should be exercised, and if any questions exist, it will be resolved according to AFI 31-401 and other applicable directives.

5. CHANGES TO CODES

5.1 System Codes. The system codes in this manual are standard throughout the Air Force and will only be revised by official publication. Recommended changes to this manual regarding its use, format, procedures, or the Action Taken, When Discovered, How Malfunctioned, or Support General Codes will be submitted through command channels.

5.2 Changes. Recommended changes to Work Unit Codes or equipment listings in this manual shall be submitted on AFTO Form 22, in accordance with T0 00-5-1 to the following address:

OO-ALC/TIEDT
6042 FIR AVE (BLDG 1236)
HILL AFB, UT 84056-5820

**TYPE MAINTENANCE CODES
(Ground CEM)**

NOTE

Refer to TO 00-20-2 for off-equipment shop
Type Maintenance codes.

<u>CODE</u>	<u>DESCRIPTION</u>
A	SERVICE Includes all units of work associated with servicing, cleaning, and movement of equipment.
B	UNSCHEDULED MAINTENANCE Includes all units of work accomplished between scheduled inspections. Does not include the “Look” and “Fix” phase of inspections, or work covered by Type Maintenance Codes R or T. This code includes repair/calibration of items or equipment between scheduled calibration intervals.
F	DAILY/SHIFT/PHASE/PERIODIC Includes all units of work accomplished during daily/shift/phase/periodic inspections. This code will be used on both the “Look” phase of the inspection and on all “Fix” phase documents generated for correction of deficiencies noted during the inspection.

NOTE

Accomplishment of unscheduled inspection actions performed as part of a repair will be considered part of the total repair action, i.e., Action Taken Code F, G, etc.

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H EMERGENCY ON-SITE REPAIR

Includes all units of work authorized and accomplished as a result of an emergency request for assistance. Applicable to all levels of maintenance performed by AFCA Engineering and Installation Teams and organizational and intermediate maintenance performed by AFMC Mobile Depot Activity (MDA) teams. Excludes accomplishment of TCTOs.

J SCHEDULED CALIBRATION OF EQUIPMENT OR COMPONENTS

Includes all units of work accomplished concurrently with a scheduled calibration.

P SCHEDULED MAINTENANCE

Includes all scheduled work accomplished between scheduled inspections, such as periodic scheduling of equipment through shops. Excludes the "Look" and "Fix" phase of scheduling inspections, or work outlined in other type maintenance codes.

R DEPOT MAINTENANCE

Includes all units of work accomplished when depot maintenance or rehabilitation is performed, regardless of location. This includes emergency on-site repair involving depot level maintenance by AFMC personnel. Excludes accomplishment of TCTOs.

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S SPECIAL INSPECTION

Includes all units of work accomplished during all phases of special inspections. This code will also be used for all separate "Fix" and "Repair" documents generated for the correction of deficiencies noted during the special inspection. Excludes accomplishment of TCTOs.

**T TIME COMPLIANCE
TECHNICAL ORDER (TCTO)**

Includes accomplishment of all TCTOs.

**Z TIME COMPLIANCE
TECHNICAL ORDER (TCTO)
COMPUTER GENERATED:**

Enables distinction between TCTO transactions processed within CAMS/IMDS and passed to standard MDCS for daily/monthly processing where both systems operate on same base.

ACTION TAKEN CODES**CODE DESCRIPTION****A BENCH CHECKED AND
REPAIRED**

Bench check and repair of any one item is accomplished at the same time (also see code F).

**B BENCH CHECKED -
SERVICEABLE (NO REPAIR
REQUIRED)**

This code will be entered when it is definitely determined that the discrepancy does not exist or cannot be replicated. Must be used with How Malfunction Code 672, 799, 812, or 948.

**C BENCH CHECKED - REPAIR
DEFERRED**

Bench check is accomplished and repair action is deferred (see code F).

**D BENCH CHECKED -
TRANSFERRED TO ANOTHER
BASE OR UNIT**

Item is bench checked at a forward operating base, dispersed operating base, or enroute base and is found unserviceable and transferred to a main operating base or home base for repair. Not used for items returned to depot for overhaul. Used also for precision measuring equipment (PME) or other equipment sent to another base/unit for bench check, calibration, or repair and is to be returned and for items forwarded to contractors on base level contracts.

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E INITIAL INSTALLATION

For installation actions that are not related to a previous removal action such as installation of additional equipment or installation of an item to remedy a ship-short condition. This code will be used only for Reliability Improvement Warranty (RIW) items and for equipment managed under the Advanced Configuration Management System (ACMS). Reference TO 00-20-2. Must be used with HOW MAL Code 799.

F REPAIR

Not to be used to code "On-Equipment" work if another code will apply. When it is used in a shop environment, this code will denote repair as a separate unit of work after a bench check. Shop repair includes the total repair man-hours and includes cleaning, disassembly, inspection, adjustment, reassembly and lubrication of minor components incident to the repair when these services are performed by the same workcenter. For precision measuring equipment, this code will be used only when calibration of the repaired item is required (see code G).

**G REPAIRS AND/OR
REPLACEMENT OF MINOR
PARTS, HARDWARE, AND
SOFTGOODS (SEALS, GASKETS,
ELECTRICAL CONNECTORS,
FITTINGS, TUBING, HOSE,
WIRING, FASTENERS,
VIBRATION ISOLATORS,
BRACKETS, ETC.)**

Work unit codes do not cover most non-repairable items. Therefore, when items such as those identified above are repaired or replaced, this action taken code will be used. When this action taken code is used, the work unit code will identify the assembly being serviced or most directly related to parts being repaired or replaced. For example, if an electrical connector was repaired and was attached to a radio transmitter, the work unit code for the transmitter would be used with this action taken code. For precision measuring equipment (PME), this code will be used for minor repairs on PME that was within T.O. tolerance when received by the performing workcenter.

**H EQUIPMENT CHECKED - NO
REPAIR REQUIRED (FOR
“ON-EQUIPMENT” WORK
ONLY)**

For all discrepancies that are checked and found to require no further maintenance action. This code will be used only if it is definitely determined that a reported deficiency does not exist or cannot be duplicated. Must be used with HOW MAL Codes 672, 799, 812, or 948.

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**J CALIBRATED - NO
ADJUSTMENT REQUIRED**

Use this code when an item is calibrated and found serviceable without need for adjustment, or is found to be in tolerance but is adjusted merely to peak or maximize the reading. If the item requires adjustment to actually meet calibration standards or to bring in tolerance, use code K.

**K CALIBRATED - ADJUSTMENT
REQUIRED**

Item may be adjusted to bring it in tolerance or meet calibration standards. If the item was repaired or needs repair in addition to calibration and adjustment, use code F.

L ADJUST

Includes adjustments necessary for safety and proper functioning of equipment such as adjust, bleed, balance, rig, fit, reroute, seat/reseat, position/reposition, program/reprogram, or actuating reset button, switch, or circuit breaker. For use when a discrepancy or condition is corrected by these types of actions. If the identified component or assembly also requires replacement of bits and pieces as well as adjustment, enter the appropriate repair Action Taken Code instead of L.

M DISASSEMBLE

Disassembly action when the complete maintenance job is broken into parts and reported as such. Do not use for on-equipment work.

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N ASSEMBLE

Assembly action when the complete maintenance job is broken into parts and reported as such. Do not use for on-equipment work.

P REMOVED

Item is removed and only the removal is to be accounted for. In this instance, delayed or additional actions will be accounted for separately (also see codes Q, R, S, T, and U). Do not use for off-equipment work except to document the removal and/or replacement of serially controlled subassemblies from their next higher assembly.

Q INSTALLED

Item is installed and only the installation action is to be accounted for (also see codes E, P, R, S, T, and U). Do not use for off-equipment work except to document the removal and/or replacement of serially controlled subassemblies from their next higher assembly.

R REMOVE AND REPLACE

Item is removed and another like item is installed (see codes T and U) and removal and/or replacement of serially controlled subassemblies from their next higher assembly. Do not use for off-equipment work.

S REMOVE AND REINSTALL

Item is removed and the same item reinstalled (see codes T and U). Do not use for off-equipment work. Must be used with HOW MAL Codes 800, 804, and 805.

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**T REMOVED FOR
CANNIBALIZATION**

A component is cannibalized. The work unit code will identify the component being cannibalized. Do not use this code for off-equipment work. Must be used with HOW MAL Code 799 or 875.

**U REPLACED AFTER
CANNIBALIZATION**

This code will be entered when a component is replaced after cannibalization. Do not use this code for off-equipment work. Must be used with HOW MAL Code 799 or 875.

V CLEAN

Cleaning is accomplished to correct discrepancy and/or cleaning is not accounted for as part of a repair action such as code F. Includes washing, acid bath, buffing, sand blasting, degreasing, decontamination, etc. Cleaning and washing of complete items such as ground equipment vehicles, missiles or airplanes should be recorded by utilizing support general codes.

**W NON-DESTRUCTIVE
INSPECTION**

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X TEST-INSPECTION-SERVICE

Item is tested, inspected, or serviced (other than bench check) and no repair is required. This code does not include servicing or used when documenting time against a reported discrepancy identifying a test, inspect or service toward a WUC item for on- and off-equipment maintenance which is unrelated to a Could Not Duplicate (CND) action. Will be used when a reported discrepancy identifying a deficiency toward a work unit code item is identified to be "Within Limits", with the appropriate no defect How Malfunction code. Will be used to document operational checks performed separately after a maintenance action in the same Job Control Number which is unrelated to a CND action. Will be used when testing items received from supply.

Y TROUBLESHOOT

Time expended in locating a discrepancy is great enough to warrant separating the troubleshoot time from the repair time. Use of this code necessitates completion of two separate forms (one for the troubleshoot phase and one for the repair phase). When recording the troubleshoot time separate from the repair time, the total time taken to isolate the primary cause of the discrepancy should be recorded utilizing the work unit code of the defective item or assembly. If the discrepancy was not isolated, the subsystem or system work unit code should be used. Do not use for off-equipment work.

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Z CORROSION TREATMENT

Includes cleaning, treating, priming, and painting of corroded or repaired components and deteriorated coatings. This code should always be used when actually treating corroded items or those with deteriorated paint. The item that is corroded or has damaged paint will be identified by the work unit code (also see support general code 09000).

0 BENCH CHECKED - NOT REPAIRABLE THIS STATION-(NRTS)-WARRANTY ITEM

Repair not authorized, item under warranty.

1 BENCH CHECKED-NRTS-REPAIR NOT AUTHORIZED

Shop is not authorized to accomplish the repair. This code shall only be used when the repair required to return an item to serviceable status is specifically prohibited by current technical directives. This code shall not be used due to lack of authority for equipment, tools, facilities, skills, parts, or technical data.

2 BENCH CHECKED-NRTS-LACK OF EQUIPMENT, TOOLS, OR FACILITIES

Repair authorized, but cannot be accomplished due to lack of equipment, tools, or facilities. This code shall be used without regard as to whether the equipment, tools, or facilities are authorized or unauthorized.

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**3 BENCH CHECKED-NRTS-DUE TO
LEAN LOGISTICS POLICY**

Repair could not be accomplished due to parts non-availability within the time limit imposed by Lean Logistics Policy.

**4 BENCH CHECKED-NRTS-LACK
OF PARTS**

Parts are not available to accomplish repair.

**5 BENCH CHECKED-NRTS-SHOP
BACKLOG**

Repair cannot be accomplished due to excessive shop backlog.

**6 BENCH CHECKED-NRTS-LACK
OF TECHNICAL DATA**

Repair cannot be accomplished due to lack of maintenance manuals, drawings, etc., which describe detailed repair procedures and requirements.

**7 BENCH CHECKED-NRTS-LACK
OF EQUIPMENT, TOOLS,
FACILITIES, SKILLS, PARTS, OR
TECHNICAL DATA**

Repair authorized but cannot be accomplished due to lack of authorization to obtain or possess required equipment, tools, facilities, skills, parts, or technical data.

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8 BENCH CHECKED - RETURN TO DEPOT

Returned to depot by direction of System Manager (SM) or Item Manager (IM). Use only when items that are authorized for base level repair are directed to be returned to depot facilities by specific written or verbal communication from the IM or SM, or when items are to be returned to depot facilities for modification in accordance with a Time Compliance Technical Order (TCTO), or as Material Deficiency Report (MDR) exhibits. The AFTO Form 350, Block 15, will be annotated to identify ALC and name of individual (IM/SM) who verbally authorized the return or other media of authorization (including phone number, if applicable).

9 BENCH CHECKED - CONDEMNED

Item cannot be repaired and is to be processed for condemnation, reclamation, or salvage. This code will also be used when a "Condemned" condition is discovered during field maintenance, disassembly, or repair.

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WHEN DISCOVERED CODES

<u>CODE</u>	<u>DESCRIPTION</u>
C	During equipment operation/caused equipment down time.
D	During equipment operation/did not cause equipment down time.
F	During unscheduled maintenance.
H	During scheduled C-E maintenance/ inspection, phase or periodic (does not include daily/shift).
J	During daily inspection/shift verification.
L	During training or maintenance on equipment utilized in a training environment (use only for Class II training equipment). This code should be used when recording maintenance or discrepancies on Class II trainers.
P	During operational systems check.
Q	Special inspection.
R	Quality control check.
S	Depot level maintenance.
T	During scheduled calibration.
U	Non-destructive inspection; includes optical, penetrant, magnetic particle, radiographic, eddy current, ultrasonic, spectrometric oil analysis, etc.
V	During unscheduled calibration.
W	In-shop repair and/or disassembly for maintenance.
Y	Upon receipt or withdrawal from supply stocks.
Z	During initial equipment installation.

V-001 /V-002 blank

**HOW MALFUNCTIONED CODES
AVIONICS/ELECTRICAL/COMPUTER
(Alphabetic Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
652	Align Time Excessive
103	Attack Display Incorrect
627	Attenuation Incorrect
693	Audio Faulty
672	Built-in Test (BIT) False Alarm
644	Built-in Test (BIT) Indicated Fault
080	Burned Out or Defective Lamp, Meter or Indicating Device
969	Cannot Resonate Input Cavity
025	Capacitance Incorrect
956	Computer Equipment Malfunction
949	Computer Memory Error/Defect
028	Conductance Incorrect
029	Current Incorrect
943	Data Error
657	Distance Measurement Error
974	Does Not Track Tuning Curve
242	Failed to Operate-Specific Reason Unknown
290	Fails Diagnostic/Automatic Test
959	Fails to Transfer to Redundant Equipment
051	Fails to Tune or Drifts
698	Faulty Card, Tape, Program, or Disk
001	Faulty Tube, Transistor, or Integrated Circuit
037	Fluctuates, Unstable or Erratic
991	Frequency Out of Band, Unstable or Incorrect
472	Fuse Blown or Defective Circuit Panel/Breaker
625	Gating Incorrect
653	Ground Speed Error
065	High Voltage or Standing Wave Ratio
942	Illegal Operation or Address
816	Impedance Incorrect
721	Improper Response to Electrical Input
718	Improper Response to Mechanical Input

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088	Incorrect Gain
064	Incorrect Modulation
255	Incorrect Output
626	Inductance Incorrect
987	Input/Output Pulse Distortion
350	Insulation Breakdown
901	Intermittent
383	Lock on Malfunction
988	Loss of Vacuum
962	Low Power (Electrical)
957	No Display
607	No-Go Indication
254	No Output
941	Nonprogrammed Halt
450	Open
948	Operator Error
457	Oscillating
609	Out of Track/Fails to Track
964	Poor Spectrum
567	Resistance Incorrect
583	Scope Presentation Incorrect or Faulty
635	Sensitivity Incorrect
615	Shorted
649	Sweep Malfunction
695	Sync Absent or Incorrect
580	Temperature Sensitive
656	Terminal Error - Azimuth Excessive
654	Terminal Error - CEP Excessive
655	Terminal Error - Range Excessive
637	Triggering Incorrect
939	Unable to Load Program
944	Update or Verification of Program/ Software Load
692	Video Faulty
169	Voltage Incorrect

**HOW MALFUNCTIONED CODES
PHYSICAL/MECHANICAL
(Alphabetic Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
127	Adjustment of Alignment Improper
651	Air in System
710	Bearing Failure or Faulty
780	Bent, Buckled, Collapsed, Dented, Distorted, or Twisted
135	Binding, Stuck, or Jammed
070	Broken
900	Burned or Overheated
111	Burst or Ruptured
006	Contacts, Connectors, or Connections Defective
201	Contaminated Oil
170	Corroded Mild/Moderate
667	Corroded Severe
190	Cracked
116	Cut
865	Deteriorated (for protective coating/sealant defective; use with "Action Taken" code Z)
932	Does Not Engage, Lock, or Unlock Correctly
553	Does not meet specifications, drawing, or other conformance requirements (use with "When Discovered" code Y)
632	Expendable (thermal battery, fire extinguisher, etc.)
481	Exposure to Fire Extinguishing Agent
602	Failed or Damaged Due to Malfunction of Associated Equipment
242	Failed to Operate - Specific Reason Unknown
301	Foreign Object Damage (FOD)
086	Improper Handling, Shipping, or Maintenance Damage
410	Lack of/or Improper Lubrication
884	Lead Broken
381	Leaking Internal or External
890	Lightning Strike Damage

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730	Loose
105	Loose, Damaged, or Missing Hardware (nuts, bolts, screws, clamps, safety wire, etc.)
750	Missing
008	Noisy/Chattering
876	Non-Technical Order Directed Removal/ Removal for Reconfiguration
200	Oil Leakage
948	Operator Error
880	Opportunistic Maintenance Removal (equipment approaching T.O. limits)
525	Pressure Incorrect/Fluctuates
870	Removal for Research, Test, or Diagnostic Event
875	Removal for Reuse (cannibalization)
878	Removal to Perform Scheduled/ Special Inspection (PE, HSI, etc. - T.O. directed)
002	Servicing (may be used with WUC items)
585	Sheared
874	Storage Damage or Deterioration
911	TCTO not complied with, TCTO complied with in error, or placed in work in error
167	Tension or Torque Incorrect
877	T.O. Identified Components
622	Wet/Condensation
020	Worn, Chaffed, Frayed, or Torn

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**HOW MALFUNCTIONED CODES
NO DEFECT
(Alphabetic Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
799	No Defect
800	No Defect - Component removed/reinstalled to facilitate other maintenance (includes disconnect/connection of electrical wires, hydraulic lines, etc.)
812	No Defect - Indicated defect caused by associated equipment malfunction
921	No Defect - Item has been rebuilt, refurbished, or has had parts replaced because of Technical Order Requirements (to be used with "Action Taken" repair codes G, R, P, or Q)
802	No Defect - Partial TCTO compliance
805	No Defect - Pre/Post Alert Programming
804	No Defect - Removed for scheduled maintenance, modification, or reliability assessment
806	No Defect - Routine/ Emergency/ Special Reprogramming
801	No Defect - TCTO complied with, all applicable operations completed
798	No Defect - TCTO complied with by record check or inspection No modification required
793	No Defect - TCTO kit received by Base Supply or parts are available in Supply
796	No Defect - TCTO Not Applicable: This is an error code used to tell the IM/SM that this specific piece of equipment should not have been included in the TCTO. This code is not to be used to report compliance
911	No Defect - TCTO not complied with, TCTO complied with in error or placed in work in error.
797	No Defect - TCTO previously complied with.

VIII-001 /VIII-002 blank

**HOW MALFUNCTIONED CODES
AVIONICS/ELECTRICAL/COMPUTER
(Numeric Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
001	Faulty Tube, Transistor, or Integrated Circuit
025	Capacitance Incorrect
028	Conductance Incorrect
029	Current Incorrect
037	Fluctuates, Unstable, or Erratic
051	Fails to Tune or Drifts
064	Incorrect Modulation
065	High Voltage or Standing Wave Ratio
080	Burned Out or Defective Lamp, Meter, or Indicating Device
088	Incorrect Gain
103	Attack Display Incorrect
169	Voltage Incorrect
242	Failed to Operate - Specific Reason Unknown
254	No Output
255	Incorrect Output
290	Fails Diagnostic/Automatic Test
350	Insulation Breakdown
383	Lock on Malfunction
450	Open
457	Oscillating
472	Fuse Blown or Defective Circuit Panel/Breaker
561	Unable to Adjust to Limits
567	Resistance Incorrect
580	Temperature Sensitive
583	Scope Presentation Incorrect or Faulty
607	No-Go Indication
609	Out of Track/Fails to Track
615	Shorted
625	Gaiting Incorrect
626	Inductance Incorrect
627	Attenuation Incorrect
635	Sensitivity Incorrect
637	Triggering Incorrect
644	Built-in Test (BIT) indicated Fault
649	Sweep Malfunction

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652	Align Time Excessive
653	Ground Speed Error
654	Terminal Error - CEP Excessive
655	Terminal Error - Range Excessive
656	Terminal Error - Azimuth Excessive
657	Distance Measurement Error
672	Built-in Test (BIT) False Alarm
692	Video Faulty
693	Audio Faulty
695	Sync Absent or Incorrect
698	Faulty Card, Tape, Program, or Disk
718	Improper Response to Mechanical Input
721	Improper Response to Electrical Input
816	Impedance Incorrect
901	Intermittent
939	Unable to Load Program
941	Nonprogrammed Halt
942	Illegal Operation or Address
943	Data Error
944	Update or Verification of Program/ Software Load
948	Operator Error
949	Computer Memory Error/Defect
956	Computer Equipment Malfunction
957	No Display
959	Fails to transfer to redundant equipment
962	Low Power (Electrical)
964	Poor Spectrum
969	Cannot Resonate Input Cavity
974	Does Not Track Tuning Curve
987	Input/Output Pulse Distortion
988	Loss of Vacuum
991	Frequency Out of Band, Unstable, or Incorrect

**HOW MALFUNCTIONED CODES
PHYSICAL/MECHANICAL
(Numeric Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
002	Servicing (may be used with WUC items)
006	Contacts, Connectors, or Connections Defective
008	Noisy/Chattering
020	Worn, Chaffed, Frayed, or Torn
070	Broken
086	Improper Handling, Shipping, or Maintenance Damage
105	Loose, Damaged, or Missing Hardware (nuts, bolts, screws, clamps, safety wire, etc.)
111	Burst or Ruptured
116	Cut
127	Adjustment or Alignment Improper
135	Binding, Stuck, or Jammed
167	Tension or Torque Incorrect
170	Corroded Mild/Moderate
190	Cracked
200	Oil Leakage
201	Contaminated Oil
242	Failed to Operate - Specific Reason Unknown
301	Foreign Object Damage (FOD)
381	Leaking Internal or External
410	Lack of/or Improper Lubrication
458	Out of Balance
481	Expose to Fire Extinguishing Agent
525	Pressure Incorrect/Fluctuates
585	Sheared
602	Failed or Damaged Due to Malfunction of Associated Equipment
622	Wet/Condensation
632	Expend (thermal battery, fire extinguisher, etc.)
651	Air in System
667	Corroded Severe
710	Bearing Failure or Faulty
730	Loose

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750	Missing
780	Bent, Buckled, Collapsed, Dented, Distorted, or Twisted
865	Deteriorated (for protective coating/sealant defective; use with “Action Taken” code Z)
870	Removal for Research, Test, or Diagnostic Event
874	Storage Damage or Deterioration
875	Removal for Reuse (cannibalization)
876	Non-Technical Order Directed Removal/ Removal for Reconfiguration
877	T.O. Identified Components
878	Removal to Perform Scheduled/Special Inspection (PE, HSI, etc. - T.O. directed)
880	Opportunistic Maintenance Removal (equipment approaching T.O. limits)
884	Lead Broken
890	Lightning Strike Damage
900	Burned or Overheated
911	TCTO not complied with, TCTO complied with in error, or placed in work in error
932	Does Not Engage, Lock, or Unlock Correctly
948	Operator Error

**HOW MALFUNCTIONED CODES
NO DEFECT
(Numeric Sequence)**

<u>CODE</u>	<u>DESCRIPTION</u>
793	No Defect - TCTO kit received by Base Supply or parts are available in Supply
796	No Defect - TCTO Not Applicable. This is an error code used to tell the IM/SM that this specific piece of equipment should not have been included in the TCTO. This code is not to be used to report compliance
797	No Defect - TCTO previously complied with
798	No Defect - TCTO complied with by record check or inspection. No modification required
799	No Defect
800	No Defect - Component removed/reinstalled to facilitate other maintenance (includes disconnect/connection of electrical wires, hydraulic lines, etc.)
801	No Defect - TCTO complied with, all applicable operations completed
802	No Defect - Partial TCTO compliance
804	No Defect - Removed for scheduled maintenance, modification, or reliability assessment
805	No Defect - Pre/Post Alert Programming
806	No Defect - Routine/Emergency/Special Reprogramming
812	No Defect - Indicated defect caused by associated equipment malfunction
921	No Defect - Item has been rebuilt, refurbished, or has had parts replaced because of Technical Order Requirements (to be used with "Action Taken" repair codes G, R, P, or Q)

SUPPORT GENERAL CODES

<u>CODE</u>	<u>DESCRIPTION</u>
01000	GROUND HANDLING, SERVICING, AND RELATED TASKS
	Ground Handling
	Equipment Moving or Repositioning
	Installation and/or Relocation of Equipment
	Removal of Equipment
	Mission Equipment Operation or Support When Not Associated With Scheduled or Unscheduled Maintenance
	Servicing and Related Tasks
	Scheduled Power Changeover
	Troubleshooting End Items or Facilities (Use only for end items or facilities that do not have a work unit code assigned)
	Unscheduled Power Changeover
	Power Production Service and Checkout
	Environmental Control
	Rehabilitation of Antenna Systems
	Unscheduled Antenna System Service
	Clearing of Antenna/Transmission Right-of-Way
	Installation of New Antenna System
	Receiver or Transmitter Frequency Changes

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**01000 GROUND HANDLING,
SERVICING AND RELATED
TASKS CONT.**

Servicing and Related Task Cont.

Tape Development, Reproduction, and
Analysis

Telephone Number Change

Rehabilitation of Equipment

**02000 EQUIPMENT AND FACILITY
CLEANING**

Washing or Degreasing

Cleaning and Treating Equipment to
Prevent Corrosion

Ground Snow, Frost, and Ice Removal

Cleaning Antenna Systems, Mobile
Facilities and Fixed Facilities

Decontamination

**05000 PRESERVATION,
DEPRESERVATION AND
STORAGE OF C-E EQUIPMENT**

06000 GROUND SAFETY

**07000 PREPARATION AND
MAINTENANCE OF RECORDS**

(This code will be used to record only
the direct labor expended in
preparation and/or maintenance of
status and historical forms. This
excludes initiation and completion of
production documentation forms.)

**09000 SHOP SUPPORT GENERAL
CODE**

Fabricate (includes fabrication or local
manufacture of miscellaneous items.)

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**09000 SHOP SUPPORT GENERAL
CODE CONT.**

Stenciling/painting (includes
stenciling, lettering, installing decals,
instrument range marking, etc., and
painting for cosmetic purposes only).
Do not use this code for treating
corrosion or painting of
parts/assemblies/equipment for
corrosion prevention/control

Testing and servicing fire
extinguishers

Reclamation

**LOOK PHASE OF SCHEDULED
INSPECTIONS**

SCHEDULED INSPECTIONS

<u>CODE</u>	<u>DESCRIPTION</u>
03100	As Required (other than as specified below)
03101	Daily
03107	7 Day Interval
03114	14 Day Interval
03121	21 Day Interval
03128	28 Day Interval
03142	42 Day Interval
03156	56 Day Interval
03184	84 Day Interval
03268	168 Day Interval
03336	336 Day Interval

**LOOK PHASE OF C-E SPECIAL
INSPECTIONS**

C-E SPECIAL INSPECTIONS

<u>CODE</u>	<u>DESCRIPTION</u>
04110	Operational or System Checks
04111	Special Modification Inspection
04112	Equipment Inventory
04119	Special Inspections NOC
04141	Corrosion Control Inspections Accomplished Separately from Scheduled Inspections
04610	Non-Destructive Testing (All Types)
04630	Research and Development of New or Revised Non-Destructive Inspection Techniques

**UNIQUE DATA CODES FOR
MAINTENANCE COST SYSTEM**

<u>CODE</u>	<u>DESCRIPTION</u>
ALT00	<u>Alert Duty.</u> All man-hours expended while waiting for alert aerospace vehicles to takeoff or land, such as strategic, defense, tactical, standing by for crash alert, or for alert missiles when no work is being accomplished. Not to be used for standby, awaiting work assignments, lag, or other delays, or when direct productive effort is being expended.
CMP00	<u>Compensatory Time for Overtime.</u> All direct assigned man-hours excused from normal duty as a result of previously expended overtime man-hours.
DTL00	<u>Detail, Squadron or Base Duties.</u> Man-hours expended by direct labor personnel (labor code 100) performing on-base duties such as CQ, policing, building maintenance, driver, dining hall, parade, commanders call, general military training, non-technical training, etc.
LVE00	<u>Leave.</u> Man-hours excused from duty, pass, or official leave, military, medical or sick leave.
TRN00	<u>Maintenance Training.</u> Man-hours expended in OJT, formal and informal maintenance technical training.

NOTE: These codes are to be used to account for man-hours expenditures of personnel with an assigned "direct" labor code when performing one of the above functions. Documentation guidance for AFTO Form 349 entries is contained in 00-20-2- series Technical Orders.

**WORK UNIT CODES
WSR-88D DOPPLER
METEOROLOGICAL RADAR**

SECTION I

INTRODUCTION

This section of the manual contains work unit codes for all equipment. These codes will be used by maintenance personnel when recording maintenance performed directly on the end item, or on components of the equipment undergoing repair, testing, calibration, or bench check.

**WORK
UNIT
CODE**

A0000	DOPPLER METEOROLOGICAL RADAR WSR-88D
AF000	EQUIPMENT SHELTER ASSEMBLY UD1
AFS00	SHELTER UD7
AFSA0	Surge Suppressor 7A11, 7A68, 7A69
AFSA9	NOC
AFSB0	Fire Suppression System 7A5
AFSBA	Printed Circuit Board 7A5A1
AFSB9	NOC
AFSC0	Damper Assembly 7A9, 7A10, 7A39, 7A40
AFSD0	Alarm Panel 7A12
AFSD9	NOC
AFSE0	Fire Suppression Manual Abort Station 7A7
AFSF0	Manual Discharge Station 7A6
AFSG0	Utilities Junction Box 7A1, A24
AFSH0	Main Power Distribution Panel 7A2
AFSH9	NOC
AFSJ0	Secondary Power Distribution Panel 7A3, 7A29, 7A30
AFSK0	Xmtr Discharge Sensor 7A21, 7A51
AFSL0	Solenoid Valve Assembly 7A8A1

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AF000 EQUIPMENT SHELTER ASSEMBLY

UD1 - Continued

AFS00 SHELTER UD7 - Continued

AFSM0	Relay Box Assembly UD31 (FAA Only)
AFSN0	RDA Shelter CEC Coil Control 7TPS1
AFSN9	NOC
AFSP0	CEC Pwr Dist Panel 7TPS2
AFSP9	NOC
AFSQ0	Magnetic Contactor 7S6, 7S36, 7S37
AFSR0	Air Conditioning Unit (w/o Economizer) 7AC1, AC2
AFSR9	NOC
AFSS0	Air Conditioning Unit (w/ Economizer) 7AC1, AC2
AFSS9	NOC
AFST0	Air Conditioning Unit Discharge Sensors 7A18, 7A19, 7A48, 7A49
AFSU0	Clogged Filter Indicator 7A14, 7A15, 7A16, 7A44
AFSV0	Bandpass Filter 1FL1/101, 1FL2
AFSW0	Bandpass Filter 1FL5/105
AFSX0	Line Protector Assy 1A26
AFSY0	Bandpass Filter 1FL3/103
AFSZ0	Bandpass Filter 1FL4/104
AFS99	NOC

AH000 RDA SITE GENERATOR SHELTER

UD10

AHA00	Onan Auto Transfer Switch Assembly 10A1-1
AHAA0	Voltage Sensing Module 10A1A5-1, 10A1A7-1
AHAB0	Battery Charger 10A1A6-1
AHAC0	Program Transition Module 10A1A8-1
AHAD0	Signal Module PCB 10A1A2-1
AHAE0	Exerciser Clock 10A1A3-1
AHAF0	Power Sentry Motherboard 10A1A4-1
AHAG0	Transformer PCB 10A1A9-1
AHAH0	Time Delay PCB 10A1A10-1
AHAH9	NOC
AHA99	NOC

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**AH000 RDA SITE GENERATOR SHELTER
UD10 - Continued**

AHB00	Main Power Distribution Panel 10A2
AHB99	NOC
AHC00	Onan 80KW Generator 10MG1
AHCA0	Battery 10MG1BT1, 10MG1BT2
AHCB0	Diesel Generator Engine 10MG1M1
AHCC0	Control Monitor 10MG1A1
AHCC9	NOC
AHC99	NOC
AHD00	Kohler 80KW Diesel Generator 10MG1
AHDA0	Battery 10MG1BT1
AHDB0	Controller Assembly 10MG1A1
AHDBA	Main Circuit PCB Assembly 10MG1A1A1
AHDBB	16 Light PCB Assembly 10MG1A1A2
AHDB9	NOC
AHDC0	Diesel Engine Assembly/John Deere 10MG1M1
AHDC9	NOC
AHD99	NOC
AHE00	Kohler Auto Transfer Switch 10A1
AHEA0	Microcontroller Assembly 10A1A1
AHEAA	Load Shed PCB Assembly 10A1A1A1
AHEAB	10 Relay PCB Assembly 10A1A1A2
AHEAC	1 Relay PCB Assembly 10A1A1A3/A4
AHEA9	NOC
AHEB0	Battery Charger 10A1A6
AHEC0	Power Supply 10A1A7
AHED0	Contactorm Assembly 10A1A2
AHED9	NOC
AHE99	NOC
AHF00	Interior Temperature Sensor 10A7, 10A12
AHG00	Alarm Termination Panel 10A9

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**AH000 RDA SITE GENERATOR SHELTER
UD10 - Continued**

AHH00	Fuel Tank Assembly 10A6
AHHA0	Fuel Sensor Assembly 10A6A1, 10A6A2
AHHAA	Fuel Level Sensor 10A6A1MT1, 10A6A2MT1
AHHAB	Fuel Level Probe Sensor 10A6A1MT1A1, 10A6A2MT1A1
AHH99	NOC
AHJ00	Thermal Detector 10A8
AHK00	Exhaust Fan 10B5
AHL00	CD-36" X 36" Exhaust Damper Assembly 10A3
AHM00	CD-20" X 20" Exhaust Damper Assembly 10A11
AHN00	CD-42" X 42" Intake Damper Assembly 10A4, 10A5
AHP00	Actuator Motor 10B1 thru 10B4
AHQ00	Heater 10HR1
AHR00	Utility Power Disconnect Switch 10S1
AHR99	NOC
AHS00	Thermostat Transmitter 10S2
AHT00	TPS Fuse Disconnect 10TPS1
AHU00	Surge Protector 10A20
AHU99	NOC
AHV00	Portable Fire Extinguisher 10A10
AHW00	Fluorescent Light Fixture 10U1, 10U2

**AJ000 TRANSITION POWER
MAINTENANCE SHELTER UD60**

AJA00	Environmental Control Unit, 2-ton 60A11 (Type 1, 2, 5, 6 & 9)
AJB00	TPS Ventilation System 60A2 (Type 3)
AJB99	NOC
AJD00	1.8KW 120V Electric Toilet 60A4 (Type 1, 4, 5, 7 & 9)
AJD99	NOC
AJE00	Shelter Power Distribution System Panel 60A5
AJE99	NOC

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**AJ000 TRANSITION POWER
MAINTENANCE SHELTER UD60 -
Continued**

AJF00	Alarm Termination Panel 60A6
AJFA0	Magnetic Door Alarm Panel 60A6A1, A2, & A3
AJF99	NOC
AJG00	Heater Unit (Type 3) 60A7, 60A8
AJH00	Hydrogen Detector 60A10
AJH99	NOC
AJJ00	Hydrogen Detector Circuit Breaker Panel 60A13
AJK00	Environmental Control Unit, 3-ton 60A12 (Type 4 & 7)
AJL00	Environmental Control Unit, with Coated Coils 60A15
AJM00	ECU Thermostat 60A14
AJ099	NOC

AK000 RADAR TRANSMITTER UD3/103

AKBA0	Control Panel 3A1
AKBAA	Fault Display Printed Wiring Assy 3A1A1
AKBAB	Metering Interface Circuit Card Assy 3A1A2
AKBAC	Proportional Preheat Circuit Card 3A1A3
AKBB0	Card Rack and Wired Backplane Assy 3A3
AKBBA	Transmitter Control Logic PTD Wiring Assy 3A3A1
AKBBB	Transmitter Control Interface PWA 3A3A2
AKBBC	RMS Interface Printed Wiring Assy 3A3A3
AKBBD	Control Adapter Printed Wiring Assy 3A3A4
AKBC0	RF Driver Module 3A4
AKBD0	Oil Tank Assembly 3A7
AKBDA	Interface Assembly 3A7A1
AKBDB	Oil Tank Component PTD Wiring Assy 3A7A1A1
AKBDC	Centrifugal Pump Unit 3A7HP1
AKBDE	Pulse Transformer 3A7T1

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**AK000 RADAR TRANSMITTER UD3/103
- Continued**

**AKBD0 Oil Tank Assembly 3A7 -
Continued**

AKBDF	Charging Transformer 3A7T2
AKBDG	Filament Transformer 3A7T3
AKBE0	Modulator Pulse Assembly 3A12
AKBEA	RBDT Switch 3A12A1
AKBEB	Trigger Blocking Diode Stack 3A12A2
AKBEC	Backswing Diode Stack Assembly 3A12A3
AKBED	Diode Assembly 3A12A5
AKBEE	Resistor/Diode Assembly 3A12A4
AKBEF	Pulse Forming Network 3A12A6
AKBEG	Trigger Loading Board Assembly 3A12A7
AKBEH	Voltage Equalization Printed Wiring Assy 3A12A8
AKBEJ	Stack Monitor 3A12A9
AKBEK	Right Hand Drawer Extension Slide 3A12MP5
AKBEL	Left Hand Drawer Extension Slide 3A12MP3
AKBEM	High Voltage Latching Switch 3A12A10
AKBEN	PFN Interface Switch 3A12A11
AKBE9	NOC
AKBF0	Post Charge Regulator 3A8
AKBG0	Trigger Amplifier 3A11
AKBH0	Cabinet Blower Assembly 3B3
AKBHA	Modified Motor 3B3B1
AKBHB	Modified Blower 3B3B2
AKBJ0	Filament Power Supply 3PS1
AKBK0	280V Power Supply Assembly 3A2
AKBL0	Pulse Shaper Module 3A5
AKBM0	Arc Detector 3A6
AKBN0	Filter Capacitor Bank 3A9
AKBP0	Charging Switch 3A10
AKBQ0	Power Distribution Panel 3A13
AKBR0	Fuse Box Assembly 3N3
AKBS0	30dB Directional Coupler 3DC1
AKBT0	Focus Coil Power Supply 3PS2

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**AK000 RADAR TRANSMITTER UD3/103
- Continued**

AKBU0	+28V Power Supply 3PS3
AKBV0	+15V/- 15V Power Supply 3PS4, 3PS5
AKBW0	+5V Power Supply 3PS6
AKBX0	+45V Power Supply 3PS7
AKBY0	Vacuum Pump Power Supply 3PS8
AKBZ0	Manifold Assembly
AKBZA	Manifold
AKB10	Stove Pipe Duct
AKB20	Klystron 3V1
AKB30	Focus Tube Coil 3L1
AKB40	Tuning Mechanism 3L1A2
AKB50	Transmitter Cabinet Assembly
AK099	NOC

**AL000 TRANSITION POWER SOURCE
(TPS) UD61, UD62, UD63, UD64,
UD65**

ALE00	TPS Power Distribution System 61A5
ALEA0	Input Fused Disconnect 61A5S1
ALEB0	Maintenance Bypass Fused Disconnect (Type 1, 2, & 4) 61A5S2
ALEC0	Maintenance Bypass Fused Disconnect (Type 3) 61A105S2
ALED0	Output Fused Disconnect 61A5S3
ALE99	NOC
ALF00	TRANSITION POWER SYSTEM, PLUS 50 KVA UD62
ALFA0	Static Switch/By-Pass Assy 62A3
ALFAA	By-Pass Control PWB 62A3A1
ALFB0	Inverter/Rectifier Control PWB Assy 62A4
ALFBA	Rectifier Control PWB 62A4A1
ALFBB	Inverter Control PWB 62A4A2
ALFB9	NOC
ALFC0	Monitor Panel Assy 62A5
ALFCA	Monitor PWB 62A5A1
ALFCB	CCFT DC/AC Inverter Board 62A5A3
ALFCC	Monitor LCD Panel 62A5A2

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AL000	TRANSITION POWER SOURCE (TPS) UD61, UD62, UD63, UD64, UD65 - Continued
ALF00	TRANSITION POWER SYSTEM, PLUS 50 KVA UD62 - Continued
ALFD0	Power Supply Assy 62PS1, 62PS2, 62PS3
ALFE0	Fan Assembly 62A7
ALFE9	NOC
ALFF0	DC Capacitor Pan 62A1
ALFG0	Fuse Panel Assembly 62A2
ALFH0	Accessory Termination Panel 62A13
ALFJ0	Control Panel Assembly 62A6
ALFJ9	NOC
ALFK0	Inverter Assembly 62A8
ALFKA	A-Phase Inverter Module Assembly 62A8A1
ALFKB	B-Phase Inverter Module Assembly 62A8A2
ALFKC	C-Phase Inverter Module Assembly 62A8A3
ALFK9	NOC
ALFL0	Rectifier Assembly 62A9
ALFL9	NOC
ALFM0	Magnetic Package Assembly 62A10
ALFN0	Customer Interface Panel 62A11
ALFNA	Remote Monitor Adapter Cable 62A11A1
ALFP0	Modem Assembly 62A12
ALFPA	Modem 62A12A1
ALFQ0	Base Assembly 62A14
ALFR0	Cabinet
ALFR9	NOC
ALF99	NOC
ALG00	Battery Cabinet UD63
ALGA0	Battery Cabinet Assembly 63A1
ALGA9	NOC
ALGB0	Battery Tray Assembly 63A2
ALGBA	12V Battery 63A2BT1 thru BT40
ALGB9	NOC
ALG99	NOC

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**AL000 TRANSITION POWER SOURCE
(TPS) UD61, UD62, UD63, UD64,
UD65 - Continued**

ALH00	Maintenance By-Pass Cabinet UD64 (TPMS Types 5, 6, 7, 8, and 9)
ALHA0	Electrical Interlock Assembly 64A1
ALHA9	NOC
ALH99	NOC
ALJ00	Supervisory Contact Module UD65
ALJ99	NOC
AL099	NOC

**AP000 RADAR DATA PROCESSING
EQUIPMENT**

APC00	RADAR RECEIVER UD4/104
APCA0	RF Panel Assembly P/O UD4 4Z1N1
APCAB	R4983 - XXX Bandpass Filter 4A4
APCAC	R4580 - XXX Bandpass Filter 4A4
APCAD	2 Position RF Switch 4A24
APCAE	Mixer - Amplifier 4A5
APCAF	RF Power Monitor 4A26
APCAG	Microwave Delay Line 4A21
APCAH	RF Digital Attenuator 4A23
APCAJ	4 Position RF Switch 4A22
APCAK	RF Detector - Video Log Amplifier 4A29
APCAL	RF Transmission Line Switch 4A27
APCAM	Thermal Noise Generator 4A25
APCAN	I/Q Phase Difference Detector 4A10
APCAP	Transmission Line Coupler 4A20
APCA9	NOC
APCB0	Hinged Door Assembly P/O UD4 4Z1N2
APCBA	Matched Bandpass Filter Assembly 4A6
APCBB	Coaxial Delay Line 4A7
APCBC	IF Attenuator Assembly 4A8

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**AP000 RADAR DATA PROCESSING
EQUIPMENT - Continued**

**APC00 RADAR RECEIVER UD4/104 -
Continued**

APCBD	IF Amplifier/Limiter 4A9
APCBE	Amplifier - Detector 4A12
APCBF	AGC Controller Assembly 4A13
APCBG	IF Guard Band Amplifier 4A14
APCBH	Bandpass Filter 4A16
APCBJ	Bandpass Filter 4A15
APCBK	Amplifier - Detector 4A17
APCBL	Amplifier - Detector 4A18
APCBM	Interference Detector Assembly 4A19
APCBN	IF Transmission Line Switch 4A28
APCBP	Amplifier - Detector 4A30
APCBQ	RF/IF Test Monitor 4A31
APCBR	Receiver Interface Assembly 4A32
APCB9	NOC
APCC0	+18V Power Supply Assembly 4PS1
APCD0	+5V Power Supply Assembly 4PS2, 4PS7, 4PS9
APCE0	-9V Power Supply Assembly 4PS4
APCF0	+5V Power Supply Assembly 4PS5
APCG0	+9V Power Supply Assembly 4PS6
APCH0	+18V Power Supply Assembly 4PS8
APCJ0	Frequency Generator 4A1
APCJA	Frequency Generator 4A1A1
APCK0	A/D Converter Assembly 4A11
APC99	NOC
APDA0	DAU Panel Assembly 5A3 (F, RF, RN)

(F) Full Scale Production (RF) Redundant FAA
(RN) Redundant NWS

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AP000	RADAR DATA PROCESSING EQUIPMENT - Continued
APD00	RDA DATA PROCESSOR UD5/105
APDA0	DAU Panel Assembly 5A3 - Continued
APDA1	DAU Panel Assembly 5A3 (L)
APDAA	DAU Digital Processor Circuit Card 5A3A1
APDAB	DAU Analog Processor Circuit Card 5A3A2
APDB0	SCSI Assembly 5A5
APDBA	1/4" Streaming Tape Drive 5A5A1
APDBB	Fixed Disc Drive 5A5A2
APDBC	+12, +5V SCSI Power Supply 5A5PS1
APDC0	Digital Control Unit 5A6
APDCA	+5V, +5V Power Supply 5A6PS1
APDCB	+28V Power Supply 5A6PS2
APDCC	Digital Card 5A6A2
APDCD	Analog Card 5A6A1
APDCE	Notch Filter PWA 5A6A3
APDCF	+5V Power Supply 5A6PS3
APDD0	Pedestal Power Amplifier Unit 5A7
APDDA	4KW Power Amplifier 5A7A1, 5A7A2
APDDB	HV Monitor Printed Wiring Assy 5A7A3
APDE0	Programmable Signal Processor 5A9
APDEA	Input Signal Conditioner CCA 5A9A1
APDEB	IOC Controller CCA 5A9A2
APDEC	IOC Output Memory CCA 5A9A3
APDED	ACU 1-Bus Interface Unit CCA 5A9A4
APDEE	ACU 2-Microsequencer CCA 5A9A5

(L) Limited Production

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AP000	RADAR DATA PROCESSING EQUIPMENT - Continued
APD00	RDA DATA PROCESSOR UD5/105 - Continued
APDE0	Programmable Signal Processor 5A9 - Continued
APDEF	ACU 3-Register ALU CCA 5A9A6
APDEG	ACU 4-Memory ADRS Generator CCA 5A9A7
APDEH	Arithu 4-Memory CCA 5A9A8, 5A9A12, 5A9A16
APDEJ	Arithu 1-Input Multiplexer 5A9A9, 5A9A13, 5A9A17
APDEK	Arithu 2-Mux/Accumulator 5A9A10, 5A914, 5A918
APDEL	Arithu 3-Output Selector 5A9A11, 5A9A15, 5A9A19
APDEM	Chassis Assembly 5A9A20
APDF0	Hardwired Signal Processor 5A10
APDFA	Control Interface A CCA 5A10A1
APDFB	Filter Output/Clutter Map CCA 5A10A2
APDFC	Control Interface B CCA 5A10A3
APDFD	Synchronizer Circuit Card Assembly 5A10A4
APDFE	Synchronizer Circuit Card Assembly 5/105A10A4
APDFF	Control Interface C CCA 5A10A5
APDFG	Prescaler Circuit Card Assembly 5A10A6
APDFJ	Clutter Filter CCA 5A10A7, 5A10A8
APDFK	Chassis Assembly (NR only)
APDFL	Chassis Assembly (R)
APDG0	RDA M5/ES Chassis Assembly 5A12

(R) Redundant (NR) Non-Redundant

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AP000	RADAR DATA PROCESSING EQUIPMENT - Continued
APD00	RDA DATA PROCESSOR UD5/105 - Continued
APDG0	RDA M5/ES Chassis Assembly 5A12 - Continued
APDGA	Upper Temperature Sensor Assembly 5A12A3
APDGB	Micro 5 Processor CPU Assembly 5A12A4
APDGC	Direct Memory Interface CCA 5A12A5
APDGD	8 Mb Composite Memory Module CCA 5A12A6
APDGE	Level II Controller 5A12A11
APDGF	PSPI Circuit Card Assembly 5A12A14
APDGG	VCI-C Module 5A12A18
APDGH	8 Line Comm Mux CCA 5A12A19
APDGJ	Clock/Calendar Module 5A12A20A1
APDGK	8 Kb LSU w/Auto Restart CCA 5A12A20A2
APDGL	Clock Distribution CCA 5A12A21
APDGM	DMA Terminator CCA 5A12AT6
APDGN	16 Mb SELCH Circuit Card Assy 5A12A13, 5A12A15
APDGP	ODC Assembly 5A12A12
APDGQ	I/O Terminator 5A12AT3, 5A12AT4, 5A12AT7 thru 5A12AT10
APDGR	DMA Terminator 5A12AT5
APDGS	S-Bus Terminator 5A12AT1
APDGT	Terminator Board 5A12AT2
APDG9	NOC
APDH0	Fan Panel Assembly, Lower 5A13
APDHA	Fan Tray 5A13A1
APDHB	Fan Sensor Board 5A13A1A1
APDH9	NOC
APDJ0	Fan Panel Assembly 5A8

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AP000	RADAR DATA PROCESSING EQUIPMENT - Continued
APD00	RDA DATA PROCESSOR UD5/105 - Continued
APDK0	Signal Processor Cooling Fan Assy 5A11
APDL0	CDS Patch Panel CCA 5A15
APDM0	VME Assembly 5A1
APDMA	VCI-V Module 5A1A1
APDMB	ISDN Wideband Controller 5A1A2, 5A1A3
APDMC	VME Power Supply 5A1PS1
APDM9	NOC
APDN0	Maintenance Panel Assembly 5A2
APDN9	NOC
APDP0	CDT-100 Maintenance Terminal Monitor 5/105A4
APDQ0	+5V Power Supply 5PS4
APDR0	AC Power Distribution Panel 5A14
APDS0	+28V Power Supply Assembly 5PS1
APDT0	+5V Power Supply Assembly 5PS2
APDU0	+5V Power Supply Assembly 5PS3
APDV0	Swingout Power Subsystem 5PS5
APDVA	DC Power Supply 5PS5A2
APDVB	AC Power Module 5PS5A1
APDVC	CDS Control Module 5PS5A3
APDVD	Fan Assembly 5PS5A4
APDV9	NOC
APDW0	A/B Switch Assembly 5A17 (R, RF)
APDW1	Dual ABC Switch Assembly 105A17 (RN)
APDX0	Servo Choke Assembly 5A25
APDY0	Relay Assembly 5A24 (RN)
APDZ0	Automatic A/B Switch 5A19 (RN)

(R) Redundant
(RN) Redundant NWS

(RF) Redundant FAA

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**AP000 RADAR DATA PROCESSING
EQUIPMENT - Continued**

**APD00 RDA DATA PROCESSOR UD5/105
- Continued**

APD10	Statistical Multiplexer 105A20 (RN)
APD20	Standalone Dial Port Modem 105A21 (RN)
APD30	Convenience Panel 5A16
APD40	Channel Service Unit 5A18
APD50	RDA/RPG Remote Access Terminal (RRRAT)
APD51	RRRAT Monitor 5A33
APD52	RRRAT Keyboard 5A34
APD53	RRRAT CPU 5A32
APD54	RRRAT Mouse 5A36
APD59	NOC
APD99	NOC
APE00	Waveguide Pressurization Unit (Model HA -4) UD6
APE99	NOC
APF00	Waveguide Pressurization Unit (Model HA -4X2) UD6/106
APF99	NOC
APG00	Level II Recorder UD16
APGA0	Recording System 16A1
APGB0	8mm Tape 10 Position Rack 16A2
APGC0	Uninterruptible Power Supply UD16PS1
APG99	NOC
AP099	NOC

AX000 TOWER AND RADOME

AXA00	Radome UD12
AXAA0	Aircraft Warning Light Assembly 12A1
AXAB0	Zenith Hatch Assembly 12MP10
AXAC0	Lightning Rod 12MS4
AXAD0	5 Rod Lightning Array 12MS4-1
AXA99	NOC
AXB00	Steel Tower UD11

(RN) Redundant NWS

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AX000 TOWER AND RADOME - Continued

AXB00 Steel Tower UD11 - Continued

AXBA0	Exhaust Motorized Damper Assembly 11A1
AXBAA	Actuator Motor 11A1B1
AXBB0	Ventilation Fan Assembly 11A2 (Use with White Radome)
AXBC0	Ventilation Fan Assembly 11A2 (Use with Colored Radome)
AXBD0	Motor 11A2B1
AXBE0	Intake Damper Assembly 11A3
AXB99	NOC
AXC00	Limited Production Pedestal Assembly 2A1 (L)
AXCA0	Elevation Assembly 2A1A1
AXCAA	EL Manual Drive Assembly 2A1A1A1
AXCAB	EL Data Package Assembly 2A1A1A2
AXCAC	EL Encoder 2A1A1A2A1
AXCAD	EL Gearbox w/Speed Reducer 2A1A1A3
AXCAE	EL DC Servo Motor 2A1A1B1
AXCA9	NOC
AXCB0	Azimuth Assembly 2A1A3
AXCBA	AZ Manual Drive Assembly 2A1A3A1
AXCBB	AZ Data Package Assembly 2A1A3A2
AXCBC	AZ Encoder 2A1A3A2A1
AXCBD	AZ Gearbox w/Speed Reducer 2A1A3A3
AXCBE	AZ DC Servo Motor 2A1A3B1
AXCBF	AZ Drive Module
AXCB9	NOC
AXD00	Full Scale Production Pedestal Assembly 2A1 (F, R)
AXDA0	Elevation Assembly 2A1A1
AXDAA	EL Manual Drive Assembly 2A1A1A1

(F) Full Scale Production (L) Limited Production
(R) Redundant

AA-0016 Change 1

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AX000 TOWER AND RADOME - Continued

**AXD00 Full Scale Production Pedestal
Assembly 2A1 (F, R) - Continued**

AXDAB	EL Data Package Assembly 2A1A1A2
AXDAC	EL Encoder 2A1A1A2A1
AXDAD	EL Gearbox 2A1A1A3
AXDAE	EL DC Servo Motor 2A1A1B1
AXDA9	NOC
AXDB0	Azimuth Assembly 2A1A3
AXDBA	AZ Manual Drive Assembly 2A1A3A1
AXDBB	AZ Data Package Assembly 2A1A3A2
AXDBC	AZ Encoder 2A1A3A2A1
AXDBD	AZ Gearbox 2A1A3A3
AXDBE	AC DC Servo Motor 2A1A3B1
AXDBF	AZ Drive Module
AXDB9	NOC
AXEA0	Linear Polarization W/G Field Assembly (L)
AXEAA	RF Circulator 1WG4
AXEAB	Bandpass Filter 1WG6
AXEAC	Directional Coupler 1DC1
AXEAD	Waveguide Switch 1S1
AXEAE	Flexible Waveguide 1WG10
AXEAF	RF Circulator 2A1WG05
AXEAG	Receiver Protector 2A3
AXEAH	Preselect Bandpass Filter (EMI) 2A1A3FL1
AXEAJ	Low Noise Amplifier 2A4
AXEAK	Azimuth Rotary Joint 2A1A4
AXEAL	Slip Ring Assembly 2A1A2
AXEAM	Elevation Rotary Joint 2A1A5
AXEAN	Elevation Rotary Joint Adapter 2A1WG10
AXEAP	RF Power Monitor 2A5
AXEAQ	Antenna Feed Assembly 2A2
AXEAR	Waveguide Harmonic Bandpass Filter 1WG2

(F) Full Scale Production (L) Limited Production
(R) Redundant

AA-0017 Change 1

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AX000	TOWER AND RADOME - Continued
AXEA0	Linear Polarization W/G Field Assembly (L) - Continued
AXEAS	Attenuator 1AT10, 1AT11
AXEA9	NOC
AXFA0	Linear Polarization W/G Field Assembly (F)
AXFAA	RF Circulator 1WG4
AXFAB	Bandpass Filter 1WG6
AXFAC	Directional Coupler 1DC1
AXFAD	Waveguide Switch 1S1
AXFAE	Flexible Waveguide 1WG10
AXFAF	RF Circulator 2A1WG05
AXFAG	Receiver Protector 2A3
AXFAH	Preselect Bandpass Filter (EMI) 2A1A3FL1
AXFAJ	Low Noise Amplifier 2A4
AXFAK	Azimuth Rotary Joint 2A1A4
AXFAL	Slip Ring Assembly 2A1A2
AXFAM	Elevation Rotary Joint 2A1A5
AXFAN	Elevation Rotary Joint Adapter 2A1WG10
AXFAP	RF Power Monitor 2A5
AXFAQ	Antenna Feed Assembly 2A2
AXFAR	Waveguide Harmonic Bandpass Filter 1WG2
AXFAS	Attenuator 1AT10, 1AT11
AXFA9	NOC
AXGA0	Linear Polarization W/G Field Assembly (R)
AXGAA	RF Circulator 1WG4, 1WG104
AXGAB	Bandpass Filter 1WG6, 1WG106
AXGAC	Directional Coupler 1DC1, 1DC101
AXGAD	Waveguide Switch 1S1, 1S101, 1S2
AXGAE	Flexible Waveguide 1WG10
AXGAF	Waveguide Switch 2A1S1
AXGAG	RF Circulator 2A1WG05

(F) Full Scale Production (L) Limited Production
(R) Redundant

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AX000 TOWER AND RADOME - Continued

**AXGA0 Linear Polarization W/G Field
Assembly (R) - Continued**

AXGAH	Receiver Protector 2A3, 2A7
AXGAJ	Preselect Bandpass Filter (EMI) 2A1A3FL1, 2A1A3FL2
AXGAK	Low Noise Amplifier 2A4, 2A8
AXGAL	Azimuth Rotary Joint 2A1A4
AXGAM	Slip Ring Assembly 2A1A2
AXGAN	Elevation Rotary Joint 2A1A5
AXGAP	Elevation Rotary Joint Adapter 2A1WG10
AXGAQ	RF Power Monitor 2A5, 2A9
AXGAR	Antenna Feed Assembly 2A2
AXGAS	Waveguide Harmonic Bandpass Filter 1WG2, 1WG102
AXGAT	Attenuator 1AT10, 1AT110, 1AT11, & 1AT111
AXGA9	NOC
AXJ00	Miscellaneous Pedestal Equipment
AXJA0	Electric Space Heater 2HR1, 2HR2, 2HR3
AXJB0	Telephone & 2-Way Intercom System Station 2A14
AXJC0	Junction Box Assembly
AXJC9	NOC
AXJD0	Hoist Crane
AXJ99	NOC
AX099	NOC

**BA000 PROCESSOR/COMMUNICATIONS
CABINET ASSEMBLY**

BAA00	Processor Assembly UD21
BAAA0	M5/ES Chassis Assembly 21A3
BAAAA	Micro Processor CPU Assembly 21A3A4
BAAAB	Temperature Sensor Assembly 21A3A3
BAAAC	Direct Memory Interface CCA 21A3A5

(R) Redundant

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**BA000 PROCESSOR/COMMUNICATIONS
CABINET ASSEMBLY - Continued**

**BAA00 Processor Assembly UD21 -
Continued**

**BAAA0 M5/ES Chassis Assembly 21A3 -
Continued**

BAAAD	32 Mb CMM Circuit Card Assy 21A3A6-A8
BAAAE	Digital I/O CCA 21A3A14A1
BAAAF	Optical Disk Controller CCA 21A3A15, 21A3A17
BAAAG	16 Mb SELCH Circuit Card Assy 21A3A16, 21A3A18
BAAAH	VCI-C Module 21A3A19
BAAAJ	Multiperipheral Controller CCA 21A3A20
BAAAK	S-Bus Clock Distribution 21A3A21
BAAAL	DMA Terminator CCA 21A3AT7
BAAAM	S-Bus Terminator 21A3AT1
BAAAN	I/O Terminator 21A3T4, 21A3T5, 21A3AT8-AT11
BAAAP	DMA Terminator 21A3AT6
BAAAQ	Terminator Board 21A3AT2, 21A3AT3
BAAB0	VME Assembly 21A4
BAABA	ISDN Wideband Controller 21A4A1, 21A4A15
BAABB	Narrowband Module 21A4A2-A13
BAABC	VCI-V Module 21A4A14
BAABD	VME Chassis Assembly 21A4A24
BAAC0	SCSI Enclosure Assembly 21A9, 21A12
BAACA	1/4 Inch Streaming Tape Drive 21A9A1, 21A12A1
BAACB	600 Mb Fixed Disc Drive 21A9A2, 21A12A2
BAACC	Optical Disk 21A9A3, 21A12A3

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BA000	PROCESSOR/COMMUNICATIONS CABINET ASSEMBLY - Continued
BAA00	Processor Assembly UD21 - Continued
BAAC0	SCSI Enclosure Assembly 21A9, 21A12 - Continued
BAACD	+12, +5V SCSI Power Supply 21A9PS1, 21A12PS1
BAAC9	NOC
BAAE0	Lower Fan Assembly 21A5, 21A11
BAAEA	Lower Fan Panel 21A5A1, 21A11A1
BAAEB	Fan Sensor Board 21A5A1A1, 21A11A1A1
BAAF0	A/C Power Distribution Box 21A7
BAAF9	NOC
BAAG0	Convenience Panel 21A8
BAAH0	LCM Assembly Circuit Card Assy 21A13, 21A14
BAAHA	HDLCM CCA 21A13A1, 21A13A2, 21A14A1
BAAJ0	CDS Patch Panel Circuit Card Assy 21A15
BAAK0	Cabinet
BAAL0	Fan Panel Assembly
BAAL9	NOC
BAAM0	Swingout Power Subsystem 21PS1
BAAMA	AC Power Module 21PS1A1
BAAMB	DC Power Supply 21PS1A2
BAAMC	CDS Control Module 21PS1A3
BAAMD	Fan Assembly 21PS1A4
BAAM9	NOC
BAAN0	Channel Service Unit 21A17
BAA99	NOC
BAB00	RPG Communications Cabinet Assembly UD22
BABA0	Modem Rack Assembly w/Power Supply 22A1, 22A2
BABAA	Type 9600 BPS Modem Card 22A1A1-A12, 22A2A1-A12

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**BA000 PROCESSOR/COMMUNICATIONS
CABINET ASSEMBLY - Continued**

**BAB00 RPG Communications Cabinet
Assembly UD22 - Continued**

**BABA0 Modem Rack Assembly
w/Power Supply 22A1, 22A2 -
Continued**

BABAB	Modem Power Supply 22A1PS1, 22A2PS1
BABAC	Type 14400 Data Modem 22A1A4-A21, 22A2A11, 22A2A21, 22A24A11-A21
BABAD	Type 33000 Data Modem 22A1A4-A21, 22A2A11, 22A2A21, 22A24A11-A21
BABAE	Type 33000 Data Modem w/SDC 22A1A1-A10, 22A2A1-A10, 22A24A1- 22A24A10
BABB0	21 Slot Backplane 4 Rack 22A1, 22A2, 22A24
BABBA	Fan Module 22A1B1, 22A2B1, 22A24B1
BABBB	Dual Modem 22A1A1-A10, 22A2A1-A10, 22A24A1-A10
BABBC	Single Modem 22A1A9-A21, 22A2A11-A21, 22A24A11-A21
BABC0	Channel Service Unit 22A4
BABD0	Automatic Calling Unit 22A6
BABDA	Modem 22A6A1, 22A6A2
BABE0	Statistical Multiplexer 22A7
BABF0	Converter 22A8
BABG0	Telephone Patch Panel 22A9, 22A13
BABH0	Communication Adapter Panel 22A10, A15
BABJ0	Telephone Patch Panel 22A11, 22A17
BABK0	Rack Mounted Fan Assembly 22A12
BABL0	Modem Rack w/o Power Supply
BABM0	Digital Data Line Driver Modem 22A14

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**BA000 PROCESSOR/COMMUNICATIONS
CABINET ASSEMBLY - Continued**

**BAB00 RPG Communications Cabinet
Assembly UD22 - Continued**

BABN0	Communication Adapter Panel 22A19
BABP0	Limited Distance Modem 22A15-A17
BABQ0	Nest Rack w/Power Supply 22A5
BABQA	Limited Distance Modem 22A5A1-A3
BABR0	Power Supply Assembly 22PS1
BABS0	High Speed Modem 22A23
BABT0	Bandpass Filter 22FL1
BAB99	NOC

BD000 UNIT CONTROL POSITION GROUP

BDA00	Printer UD29
BDB00	Printer Station Assembly UD34
BDBA0	Limited Distance Modem 34A1-A3
BDBB0	Power Strip 34J1
BDBC0	Printer A/B Switch 34A5 (RF)
BDBD0	Telco A/B Switch 34A7
BDC00	CDT-100 Monitor UD24
BDD00	Statistical Multiplexer UD26
BDE00	Standalone Data Modem UD27
BDF00	Dual A/B Switch UD33
BD099	NOC

**BF000 RPG PROCESSOR/
COMMUNICATIONS ASSEMBLY
(RPGPCA) UD70/170**

BFA00	Sun Ultra 5 Processor Assembly 70A1
BFAA0	PCI Card Riser Board 70A1A1A1
BFAAA	Ethernet (TPE) PCI Card 70A1A2
BFAB0	Floppy Drive 70A1A1A2
BFAC0	CD-Rom Drive 70A1A1A3
BFAD0	9 GB Hard Disk 70A1A1A4
BFB00	Cisco 3640 Router 70A2
BFBA0	Serial Port Module 70A2A1A2

(RF) Redundant FAA

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**BF000 RPG PROCESSOR/
COMMUNICATIONS ASSEMBLY
(RPGPCA) UD70/170 - Continued**

**BFB00 Cisco 3640 Router 70A2 -
Continued**

BFBB0	Ethernet Port Module 70A2A1A0, A1
BFBC0	CSU/DSU Module 70A2A1A0W0
BFC00	Raritan SMX18 Keyboard/Video/ Mouse (KVM) Switch 70A3
BFD00	Sun 17 Inch Monitor 70A4
BFE00	Sun Keyboard 70A5
BFF00	Sun Mouse 70A6
BFG00	Sun Ultra 10 Processor Assembly 70A7
BFGA0	PCI Card Riser Board 70A7A1A1
BFGAA	SCSI Interface PCI Card 70A7A2
BFGAB	Four Port Serial Interface PCI Card 70A7A3
BFGAC	Digital Input/Output (DIO) PCI Card 70A7A5
BFGB0	Floppy Drive 70A7A1A2
BFGC0	CD-Rom Drive 70A7A1A3
BFGD0	9 GB Hard Disk 70A7A1A4
BFH00	Iomega Jaz 2 GB Archive Storage 70A8, 70A9
BFJ00	APC Masterswitch Power Administrator 70A10
BFK00	APC 1400 Smartups Uninterruptible Power Supply (UPS) 70A11
BFKA0	APC AP9606 Network Interface Card 70A11A2
BFKB0	Battery Assembly 70A11A1BT1
BFL00	Polycom RDA/RPG Gateway Assembly 70A12
BFM00	Cisco 2924 Lan Switch 70A13
BFN00	21 Slot Modem Nest 70A14
BFNA0	Power Supply/Fan Assembly 70A14PS1, PS2
BFNB0	Fan Assembly 70A1A14B1
BFNC0	Dual Modem 70A14A1-A4
BFND0	SDC Modem 70A14A5
BFNE0	Single Modem 70A14A6-A20

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**BF000 RPG PROCESSOR/
COMMUNICATIONS ASSEMBLY
(RPGPCA) UD70/170 - Continued**

**BFN00 21 Slot Modem Nest 70A14 -
Continued**

BFNF0 MSCF Modem 70A14A21
BFP00 PTI Communications Server 70A15,
70A16, 70A17
BFQ00 Short Haul Modem 70A19
BFR00 RS232/RS422 Converter 70A20
BFS00 A/C Power Distribution Panel 70A22
BFT00 Dial Patch Panel 70A23
BFU00 Dial Adapter Panel 70A24
BFV00 Dedicated Adapter Panel 70A25
BFW00 Dedicated Patch Panel 70A26, 70A27
BFX00 Baytech RPC-5 RMS Power
Administrator 70A28, 70A29
BFY00 28 Vdc Power Supply 70PS1
BFZ00 AC Power Filter 70FL1
BF100 Sliding Shelf Assembly
BF200 Keyboard/Mouse Tray
BF300 AC Power Outlet Strip 70J23
BF400 Electrical Equipment Cabinets
70MP1, MP2
BF4A0 EMI Filter (Right Bay) 70MP11
BF4AA Tubaxial Circular Fan 70B1,
70B2
BF500 Channel Service Unit 70A18
BF099 NOC

**BG000 MASTER SYSTEM CONTROL
FUNCTION (MSCF) UD71**

BGA00 Sun Ultra 5 Processor Assembly 71A1
BGAA0 PCI Card Riser Board 71A1A1A1
BGAAA Dial Modem PCI Card
71A1A2
BGAAB SCSI Interface PCI Card
71A1A3
BGAB0 Floppy Drive 71A1A1A2
BGAC0 CD-Rom Drive 71A1A1A3
BGAD0 9 GB Hard Disk 71A1A1A4
BGB00 Sun 21 Inch Monitor 71A2
BGC00 Sun Keyboard 71A3
BGD00 Sun Mouse 71A4
BGE00 Stand-Alone Modem 71A5

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**BG000 MASTER SYSTEM CONTROL
FUNCTION (MSCF) UD71**

BGF00 Iomega Jaz 2 GB Archive Storage
71A6
BGG00 MSCF Table 71MP1
BGH00 Surge Suppressor 71E1
BG099 NOC

**BH000 MASTER SYSTEM CONTROL
FUNCTION (MSCF) PRINTER
STATION UD79**

BHA00 Phaser 750 Laser Color Printer 79A1
BHB00 Printer Stand 79MP1
BH099 NOC

**BJ000 REMOTE BASE DATA
DISTRIBUTION SERVER (BDDS)
WORKSTATION UD72, UD73, UD74**

BJA00 Sun Ultra 5 Processor Assembly 72A1
BJAA0 PCI Card Riser Board 72A1A1A1
BJAAA Ethernet (TPE) PCI Card
72A1A2
BJAB0 Floppy Drive 72A1A1A2
BJAC0 CD-Rom Drive 72A1A1A3
BJAD0 9 GB Hard Disk 72A1A1A4
BJB00 Sun 17 Inch Monitor 72A2
BJC00 Sun Keyboard 72A3
BJD00 Sun Mouse 72A4
BJE00 BDDS Stand 72MP1
BJF00 Cisco 2924 Remote Lan Switch UD73
BJG00 Cisco 2621 Remote Router UD74
BJ099 NOC

CA000 PUP DATA PROCESSOR UD41

CAA00 Converter Rack 41A1
CAAA0 Converter 41A1A1
CAAB0 Modem Eliminator 41A1A2
CAA99 NOC
CAB00 Modem Rack w/Power Supply 41A2
CABA0 Type 9600 BPS Modem Card
41A2A1-A3 or -A2
CABB0 Modem Power Supply 41A2PS1
CABC0 Modem Rack w/o Power Supply
CABD0 Data Modem 41A2A4, A5

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**CA000 PUP DATA PROCESSOR UD41 -
Continued**

**CAB00 Modem Rack w/Power Supply 41A2
- Continued**

CABE0	14K Data Modem (Single) 41A2A1-A3
CABF0	33K Data Modem w/SDC (Single) 41A2A1-A3
CABG0	33K Data Modem w/SDC (Dual) 41A2A4, 41A2A5
CABH0	Fan Module 41A1B1
CAB99	NOC
CAC00	Communication Adapter Panel 41A6
CAD00	Graphic Processor Assembly 41A13
CADB0	Refresh Memory PCB 41A13A2, A3, A7-A10
CADC0	Video Printed Circuit BD 41A13A4, A5
CADD0	Graphics Accelerate PCB 41A13A6
CADE0	Backplane Printed Circuit Board 41A13A11
CADF0	Processor Printed Circuit Board 41A13A12
CADG0	GPiF/DMA Printed Circuit Board 41A13A13
CADH0	Graphics Accelerate PCB 41A13A14
CADJ0	Front Panel Display PCB 41A13A15
CADK0	+5V Power Supply 41A13PS1
CADL0	-2V, 5.2V Power Supply 41A13PS2
CADM0	Cursor Printed Circuit Board 41A13A1
CAD99	NOC
CAE00	M5/ES Chassis Assembly 41A16
CAEA0	Temperature Sensor Assy 41A16A3
CAEB0	Micro 5 Processor Assembly 41A16A4
CAEC0	Direct Memory Interface CCA 41A16A5

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CA000 PUP DATA PROCESSOR UD41 -

Continued

CAE00 M5/ES Chassis Assembly 41A16 -
Continued

CAED0	8 Mb CMM Circuit Card Assy 41A16A6
CAEE0	Optical Disk Controller 41A16A17
CAEF0	16 Mb SELCH CCA 41A16A13, A16, A18
CAEG0	DIO Circuit Card Assy 41A16A14A1
CAEH0	Graphics Interface CCA 41A16A15
CAEJ0	VCI-C Module 41A16A19
CAEK0	Multiperipheral Controller CCA 41A16A20
CAEL0	S-Bus Clock Distribution CCA 41A16A21
CAEM0	DMA Terminator CCA 41A16AT6
CAEN0	S-Bus Terminator 41A16AT1
CAEP0	I/O Terminator 41A16AT3, 41A16AT4, 41A16AT7-AT10
CAEQ0	DMA Terminator 41A16AT5
CAER0	Terminator Board 41A16AT2
CAE99	NOC
CAG00	Fan Panel Assembly 41A18
CAG99	NOC
CAJ00	Swingout Power Supply Subsystem 41PS1
CAJA0	AC Power Module Board 41PS1A1
CAJB0	DC Power Supply 41PS1A2
CAJC0	CDS Control Module 41PS1A3
CAJD0	Fan Assembly 41PS1A4
CAJ99	NOC
CAK00	CDS Patch Panel CCA 41A5
CAL00	VME Assembly 41A7
CALA0	VCI-V Module 41A7A1
CALB0	Narrowband Module 41A7A2, A3
CALC0	VME Chassis Assembly
CALD0	Power Supply 41A7PS1
CAL99	NOC
CAM00	Telephone Patch Panel 41A3

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Continued**

CAN00	Adapter Panel 41A4
CAP00	115/230Vac Power Supply 41PS3
CAQ00	Convenience Panel 41A21
CAR00	AC Power Distribution Panel 41A20
CAR99	NOC
CAS00	High Speed Modem 41A11
CAT00	SCSI Assembly 41A15
CATA0	600 Mb Fixed Disk Drive 41A15A2
CATB0	Optical Disc 41A15A3
CATCO	+12, +15V SCSI Power Supply 41A15PS1
CATC9	NOC
CATD0	1/4" Streaming Tape Drive 41A15A1
CAU00	Circular Frame Tubeaxial Fan 41B1-B4
CAW00	Telephone Patch Panel 41A25
CAX00	Fan Panel Assembly 41A8
CAXA0	Fan Pan (Lower) 41A8A1
CAXAA	Fan Sensor Board 41A8A1A1
CAY00	Nest Rack w/Power Supply 41A27
CAYA0	Modem, Limited Distance 41A27A1-A3
CAZ00	Parallel Line Extender 41A28
CAZ99	NOC
CA100	Bandpass Filter 41FL1
CA200	CDT-100 PUP Systems Console UD42
CA099	NOC

CD000 PUP WORKSTATION

CDA00	CDT-100 Monitor UD43A1
CDB00	Control Module Assembly UD44
CDBA0	Power Supply 44PS1
CDC00	Graphics Display Assembly UD45
CDCA0	Color Monitor 45A1, A2
CDCB0	Limited Distance Modem 45A3-A5
CDCC0	Brightness/Contrast Control Board 45A1A1 or 45A2A1
CDC99	NOC

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CDD00	Color Image Printer UD47
CDE00	Color Video Monitor UD50
CD099	NOC

**WORK UNIT CODES
WSR-88D SUPPORT EQUIPMENT**

SECTION II

INTRODUCTION

This section of the manual contains work unit codes for support equipment (SE) that was specifically designed for, and peculiar to, the WSR-88D Doppler Meteorological Radar. These codes will be used by maintenance personnel when recording maintenance performed directly on the end item, or on components of the support equipment undergoing repair, testing, calibration, or bench check. Maintenance action codes are contained at the front of this manual.

**WORK
UNIT
CODE**

DM000 WSR-88D SUPPORT EQUIPMENT

DM100	Modem Loopback Connector
DM200	Waveguide to Coax Adapter
DM300	Auto Call Unit Tester
DM400	Card Extractor
DM499	NOC
DMA00	Klystron Tube & Focus Coil Sling
DMB00	Oil Transfer Pump Kit
DMC00	Service Dolly, Klystron
DMD00	Storage Container, Klystron
DME00	(.5 Ton) Chain Hoist
DMF00	Davit Crane, RDA Tower
DMG00	TBD Elevation Assembly Lifting Fixture
DMH00	AGC Test Fixture
DMJ00	TBD Counterweight Support Fixture
DMK00	RF/Tabel Ammeter
DML00	Data Tracker
DMM00	Optical Power Meter
DMN00	HSP/PSP Card Extractor
DMP00	WCCM Loopback Cable
DMQ00	DIO Loopback Cable

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**DM000 WSR-88D SUPPORT EQUIPMENT -
Continued**

DMR00	Pedestal Oil Drain Hose w/15 Ft. Hose
DMS00	Focus Coil Adapter Cable
DMT00	Pwr Resistors/Adapter Cable
DMU00	Power Splitter (4-Way)
DMV00	MPC Loopback Cable
DMW00	LCM Loopback Cable
DMX00	Graphics Tablet Loopback Connector
DMY00	Leased Line Loopback Connector
DMZ00	RS232 to 422 Loopback Cable

